

CoCoALib - Feature #366

function (CoCoALib) for minimal generators (like old Minimalize)

11 Jun 2013 14:58 - Anna Maria Bigatti

Status:	Closed	Start date:	11 Jun 2013
Priority:	High	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	100%
Category:	New Function	Estimated time:	10.00 hours
Target version:	CoCoALib-0.99532	Spent time:	6.50 hours

Description

Might require some thoughts about GBMill

2014-04-02 postponed again GBMill. Added functions **MinGens** and **myMinimalize** (but design for ideals still needs re-thinking)

Related issues:

Related to CoCoALib - Design #455: Which sets of generators in an ideal?	New	03 Mar 2014
Related to CoCoA-5 - Feature #365: add function to compute minimal generators...	Closed	11 Jun 2013
Related to CoCoALib - Feature #387: implement algorithm(s) for resolutions	New	23 Jul 2013
Related to CoCoA-5 - Design #1123: Should "minimalize" be obsolescent?	Closed	16 Nov 2017

History

#1 - 11 Jun 2013 17:24 - Anna Maria Bigatti

- Status changed from New to In Progress
- Assignee set to Anna Maria Bigatti
- Priority changed from Normal to High
- % Done changed from 0 to 40

#2 - 11 Jun 2013 19:05 - Anna Maria Bigatti

- % Done changed from 40 to 50

#3 - 21 Mar 2014 10:46 - Anna Maria Bigatti

- Target version changed from CoCoA-5.0.9 to CoCoALib-0.99534 Seoul14
- % Done changed from 50 to 60

What should **minimalize(I)** do?

The cocoa-4 function would create a new ideal (submodule) generated by **MinGens(I)**.

Of course that's easy to do. But it seems a real waste to remove all useful information contained in **I**, the GBasis at least.

Think about what should be copied into the new ideal.

#4 - 28 Mar 2014 08:18 - Anna Maria Bigatti

- Status changed from In Progress to Resolved
- % Done changed from 60 to 80

Done.

The core function is called **myMinimalize** and is clever (i.e. saves all the precomputed data)

Called similarly to **myElim** and **mySaturate**. There is no "function" (i.e. **minimalize(I)**)

Yet to do: for submodule.

#5 - 02 Apr 2014 16:01 - Anna Maria Bigatti

- Status changed from Resolved to Feedback
- Target version changed from CoCoALib-0.99534 Seoul14 to CoCoALib-0.99532
- % Done changed from 80 to 90

#6 - 02 Apr 2014 16:04 - Anna Maria Bigatti

- Subject changed from implement function for minimal generators (like old Minimalize) to function (CoCoALib) for minimal generators (like old Minimalize)

#7 - 03 Apr 2014 11:52 - Anna Maria Bigatti

- Status changed from Feedback to Closed
- % Done changed from 90 to 100
- Estimated time set to 10.00 h

#8 - 16 Nov 2017 11:54 - Anna Maria Bigatti

- Related to Design #1123: Should "minimalize" be obsolescent? added